



ARI Pressure reducing valve Type 1909 series 701 steel flange

Accurate and reliable automatic reducing valve made of steel for various industrial applications, with pressure-relief mechanism and sealing via stainless steel bellows.

Characteristics

Series: 35.701

Type: 1909

Model: Direct-acting

Connection: Flange

Maximum inlet pressure: 50 bar

Medium temperature: -10 / 350 °C

Suitable for gases: 1

Housing material: Steel

Material quality: 1.0619+N

Material disc: 1.4021+QT

Seat material: 1.4021+QT

Membrane material: EPDM

Spring material: Steel

With couplers: No

Backflow preventer: No

Application

- Steam.Gasses.Liquids.

Technical Information

- Fitting instructions: Mount in a horizontal pipe with the diaphragm housing facing downwards. For applications with a temperature above 100°C, the supplied condensate tank must be used. Maximum pressure: 40bar Maximum temperature: 350°C. Maximum pressure ratio 25:1 Pressure range 0.2-0.6bar, actuator DMA 400, spring number 04. Pressure range 0.5-1.2bar, actuator DMA 250, spring number 04. Pressure range 0.8-2.5bar, actuator DMA 160, spring number 07. Pressure range 2.0-5.0bar, actuator DMA 80, spring number 07. Pressure range 4.5-10bar, actuator DMA 40, spring number 07. Pressure range 8.0-16bar, actuator DMA 40, spring number 10.

Options

- Different Kvs values [DN15–DN25]. Valve with soft seal (PTFE) [for a gas-tight seal]. Flow divider [for noise reduction]. Secondary spindle seal [prevents hazardous media from escaping into the atmosphere].

DN	A	DMA 40		DMA 80		DMA 160		DMA 250		DMA 400		L	Kvs-value	Max.
		H	W	H	W	H	W	H	W	H	W			dp
[mm]	mm	mm	[kg]	[mm]	[kg]	[mm]	[kg]	[mm]	[kg]	[mm]	[kg]	[mm]	[m ³ /h]	[bar]
15	95	435	17	435	18	440	19	455	21	495	26	130	3,2	40
20	105	435	18	435	19	440	20	455	22	495	27	150	5	40
25	115	440	19	440	20	440	21	460	23	500	28	160	8	25
32	140	440	21	440	22	440	23	460	25	500	30	180	12,5	25
40	150	480	26	480	27	480	28	500	30	540	35	200	20	25
50	165	480	32	480	33	480	34	500	36	540	41	230	32	25
65	185	485	39	485	40	490	41	505	43	545	48	290	50	20
80	200	530	61	530	62	530	63	545	65	585	70	310	80	20
100	235	550	79	550	80	550	81	585	83	610	85	350	125	20
125	270	590	119	590	120	590	121	610	123	650	125	400	190	16
150	300	630	152	630	153	630	154	650	156	690	158	480	280	16

Temperature(°C)

PN

-10

120

200

250

300

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Temperature[°C]					
40	25 bar	25 bar	23bar	21,8 bar	20 bar
Nominal inner diameter	Capacity type	Kvs value m³/h	Reduced pressure range bar		Article
DN15	Standard	3.2	2 / 5		11812633
DN15	Standard	3.2	0.2 / 0.6		11812630
DN15	Standard	3.2	4.5 / 10		11812634
DN15	Standard	3.2	0.5 / 1.2		11812631
DN15	Standard	3.2	0.8 / 2.5		11812632
DN15	Standard	3.2	8 / 16		11812635
DN20	Standard	5	8 / 16		11812641
DN20	Standard	5	2 / 5		11812639
DN20	Standard	5	0.2 / 0.6		11812636
DN20	Standard	5	0.2 / 1.2		11812637
DN20	Standard	5	4.5 / 10		11812640
DN20	Standard	5	0.8 / 2.5		11812638
DN25	Standard	8	0.8 / 2.5		11812644
DN25	Standard	8	8 / 16		11812647
DN25	Standard	8	0.5 / 1.2		11812643
DN25	Standard	8	4.5 / 10		11812646
DN32	Standard	12.5	8 / 16		11812653
DN32	Standard	12.5	0.8 / 2.5		11812650
DN32	Standard	12.5	0.2 / 0.6		11812648
DN32	Standard	12.5	4.5 / 10		11812652
DN32	Standard	12.5	0.5 / 1.2		11812649
DN32	Standard	12.5	2 / 5		11812651
DN40	Standard	20	0.8 / 2.5		11812656
DN40	Standard	20	8 / 16		11812659
DN40	Standard	20	2 / 5		11812657
DN40	Standard	20	0.2 / 0.6		11812654
DN40	Standard	20	0.5 / 1.2		11812655
DN40	Standard	20	4.5 / 10		11812658
DN50	Standard	32	4.5 / 10		11812664
DN50	Standard	32	2 / 5		11812663
DN50	Standard	32	8 / 16		11812665
DN50	Standard	32	0.8 / 2.5		11812662
DN50	Standard	32	0.5 / 1.2		11812661
DN50	Standard	32	0.2 / 0.6		11812660
DN65	Standard	50	0.5 / 1.2		11812667
DN65	Standard	50	4.5 / 10		11812670
DN65	Standard	50	8 / 16		11812671
DN65	Standard	50	0.8 / 2.5		11812668
DN65	Standard	50	0.2 / 0.6		11812666
DN65	Standard	50	2 / 5		11812669
DN80	Standard	80	0.2 / 0.6		11812672
DN80	Standard	80	4.5 / 10		11812676
DN80	Standard	80	2 / 5		11812675
DN80	Standard	80	8 / 16		11812677
DN80	Standard	80	0.8 / 2.5		11812674
DN80	Standard	80	0.5 / 1.2		11812673
DN100	Standard	125	4.5 / 10		11812682
DN100	Standard	125	0.5 / 1.2		11812679
DN100	Standard	125	8 / 16		11812683

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Nominal inner diameter	Capacity type	Kvs value m³/h	Reduced pressure range bar	Article
DN100	Standard	125	0.8 / 2.5	11812680
DN100	Standard	125	0.2 / 0.6	11812678
DN100	Standard	125	2 / 5	11812681

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